

CLAIMS

1. A packet data terminal comprising:
 - a digital-to-analog converter, for receiving a first packet data stream and a second packet data stream and converting the first packet data stream and the second packet data stream into a first analog representation and a second analog representation, respectively; and
 - a selective mixer, coupled to the digital-to-analog converter, for selectively mixing the first analog representation and the second analog representation to provide one of a mixed and a non-mixed output.
2. The terminal of claim 1 wherein each of the first packet data stream and the second packet data stream identifies a call session.
3. The terminal of claim 2 wherein the first packet data stream and the second packet data stream comprise at least one of voice and data.
4. The terminal of claim 1 further comprising a user interface.
5. The terminal of claim 4 wherein the user interface has an input device selected from the group consisting of: keyboards, keypads, touch screens, graphic user interfaces, track-ball systems, voice recognition systems, hand writing recognition systems, and combinations thereof.
6. The terminal of claim 5 further comprising a control module coupled to the selective mixer and the user interface.
7. The terminal of claim 1 wherein the selective mixer output is determined as a function of user action.

8. The terminal of claim 7 wherein the selective mixer provides a mixed output in response to a conference call election by a user.

9. The terminal of claim 7 wherein the selective mixer provides a non-mixed output in response to a call-waiting election by a user.

10. In a telecommunications system that couples voice communication users, a packet data terminal comprising:

a digital-to-analog converter that:

receives a plurality of packet voice data streams, and

5 converts each packet voice data stream of the plurality of packet voice data streams into a plurality of separate analog representations;

a selective mixer, coupled to the digital-to-analog converter, that selectively mixes the plurality of separate analog representations to provide one of a mixed and a non-mixed analog output;

10 a mixer digitizer, operably coupled to the selective mixer, that: receives the one of the mixed and the non-mixed analog output from the selective mixer,

15 mixes the one of the mixed and the non-mixed analog output with voice from a microphone to generate mixed voice, and

converts the mixed voice into packet data;

a multiplexer, coupled to the digital mixer, that distributes the packet data; and

20 a call control module, coupled to the selective mixer and the multiplexer, wherein selective mixer output and packet data distribution are controlled by the call control module as a function of user election.

11. The terminal of claim 10 further comprising a user interface coupled to the call control module.

12. The terminal of claim 10 wherein the mixer digitizer further comprises an analog-to-digital conversion stage.

13. The terminal of claim 10 wherein the multiplexer distributes packet data to a plurality of call sessions in response to a conference call election by the user.
14. The terminal of claim 10 wherein the multiplexer distributes packet data to a single call session in response to a call-waiting election by the user.
15. A method for establishing conference call service comprising the steps of:
- receiving, at a data terminal, a plurality of digital voice data streams, each digital voice data stream representing a separate call session;
 - 5 converting each digital voice data stream into a plurality of separate analog representations;
 - selecting, from amongst the plurality of separate analog representations, the call sessions of interest;
 - mixing the plurality of separate analog representations of the call
 - 10 sessions of interest, one with another, to produce a first mixed output;
 - mixing the first mixed output, with user generated voice signals, to produce a second mixed output;
 - converting the second mixed output into a packet data stream; and
 - distributing the packet data to the call sessions of interest.
- 15
16. The method of claim 15 wherein the step of selecting the call sessions of interest further comprises the steps of:
- enabling selective mixer inputs associated with the call session of interest; and
 - 5 disabling selective mixer inputs associated with all call sessions other than the call session of interest.
17. The method of claim 15 wherein the step of distributing the packet data further comprises the step of addressing a multiplexer stage associated with a call session of interest.